

19990807.ba v02_n630.bam.990807

>From ???@??? Sun Aug 08 03:50:44 1999
Message-Id: <199908080252.d782qTx02159@sco.theporch.com>
Date: Sat, 7 Aug 1999 21:52:09 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2630

BOATANCHORS Digest 2630

Topics covered in this issue include:

- 1) Re: "new" dynamotor
by "Arden Allen" <gumbear@pacbell.net>
- 2) Re: zero beat to WWV?
by "Arden Allen" <gumbear@pacbell.net>
- 3) FMLA: Notes
by mnhopkins@juno.com
- 4) Re: POW Camp Radios
by Dexter Francis <cwest@xmission.com>
- 5) HF/DF Receiver
by "Richard Brunner" <rbrunner@gis.net>
- 6) Drake MN-4 & Conar 400 FS
by K8MF0@aol.com
- 7) Service Manuals for Sale
by K8MF0@aol.com
- 8) Re: What is it?
by polepeeg@aaa4rm.ba-watch.org (Marty's Refl. Drop)
- 9) 1955 Handbook gems (Collins)
by wallace@world.std.com (Andy Wallace)
- 10) BA's in Anchorage
by PLT1032@aol.com
- 11) HF-DF Receiver
by Andre Guibert <aguibert@sympatico.ca>
- 12) Wanted: Knob for SX-28
by Ray Vasek <w2ec@ibm.net>
- 13) Follow-Up on TBW-5 Transmitter
by David Stinson <arc5@ix.netcom.com>
- 14) Austin Summerfest Report
by "Benjamin D. Hall" <kd5byb@WT.NET>
- 15) Silly panadaptor idea
by "Benjamin D. Hall" <kd5byb@WT.NET>
- 16) question about dc filter choke in power supply
by zeitler@ibm.net
- 17) Jackson model 637 tube tester
by zeitler@ibm.net
- 18) Re: question about dc filter choke in power supply

by Al Parker <anchor@coastalnet.com>
19) Re: 3-500z(g)
by Bob Roehrig <broehrig@admin.aurora.edu>
20) Clarification on dc choke post
by zeitler@ibm.net
21) Re: 1955 Handbook gems (Collins)
by thompson@mindspring.com

Message-Id: <199908070351.UAA25141@mail-gw5.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: "new" dynamotor
Date: Fri, 6 Aug 1999 20:52:42 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hello Sam;

> Between the Hickock and the military unit, which to anchorites
usually
> prefer?

A tube tester that measures DYNAMIC TRANSCONDUCTANCE, detects GAS, and
measures GRID EMISSION. The first is for POWER GAIN (even in a voltage
amplifier), the second is for susceptibility to FLOURESCENT MORBIDITY, and
the THIRD is for a tubes tendency to set its own BIAS. If you can get all
three in one tester let us know who built it!

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <199908070404.VAA28612@mail-gw5.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: zero beat to WWV?
Date: Fri, 6 Aug 1999 21:06:05 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Ed;

> This may be a dumb question, but what is the best way to zero beat a
> frequency source with WWV?

Well, here's my dumb answer:

Get out of your collection two single conversion receivers that have the same IF frequency. Disable the local oscillators and use a signal generator to supply the LO to both receivers. Using any cheap oscilloscope, look at the IF signal just prior to the detector, one receiver to the vertical amp and the other receiver to the horizontal amp. Voila, a Lissajous figure frequency comparator. It doesn't matter if the LO drifts cuz you have no differential frequency error. Listen to WWV with one receiver and listen to your frequency counter clock with the other receiver. Look for the big "0" and relax.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

To: Old Tube Radios <boatanchors@theporch.com>
Date: Sat, 7 Aug 1999 00:51:07 -0500
Subject: FMLA: Notes
Message-ID: <19990807.005622.-91085.0.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: mnhopkins@juno.com

If you knew them, you wouldn't have.

Except Frank, of course. My natty pal who plans to take back 56-60 mc with a Five Meter Liberation Army trades his double breasted suit for Black Tie easily and the formal wear just accents his forty-something gray at the temples. But the rest of the crew was transformed.

The WARmon, which is what I call the tall, lanky bodyguard, doesn't have any tattoos that show under a dinner jacket and his painfully short hair just makes him look like a Midshipman at the Opera. In fact, when we went to Das Rheingold, people kept asking him to help them find their seats. His boss, the chief of the self-appointed bodyguards supplied by the WAR social club, is a skinny 20-something who dresses like a very young soccer mom. But in heels and a black dress she looked like she actually belonged at the Garland Civic Center on Community Culture Night.

It is quite an upscale affair, with a series of tryouts to make sure the charity supporting audience won't be embarrassed, but Christie, complete with little clutch purse that would never hold either her sawed off or her bloodthirsty ferret, looked like one of the players--as she was.

On the way over, we kept in touch by 2M, which shows what a good mood Frank was really in. He won't normally go above 60 mc save for some 70 mc stuff he is doing in case he can reach the Brits this cycle. But as a rule he stays on 6M ready to QSY up 6 mc when the TV stations move and, "the balloon goes up," as he says. Still, he let my kid bring the HT that lost its buttons to a ferret on the way to Dayton in '95. My kid rode with Frank so he could play chauffeur later. Frank's '47 Frazer, which says "Manhattan" on it, looks like a limo to most cops and if the kid stays with the car we can park it up close. The kid even donned a dinner jacket, but refused to go in. He preferred to sneak sips of surreptitious half pints with the other chauffeurs, I supposed.

My wife's "mini" van, lighter by 250 pounds of clutter and 40 more of dirt for the outing, is equipped with a Polycom 6&2 rig that runs so hot it needs its own air conditioner vent, but it did fine for the trip across town. We had to park in the lot and Preston Anderson escorted Frank's girlfriend, Elaine, as Frank is part of the show. Elaine looked pretty good in togs gleaned from the Civic Virtue Thrift Store where she works. She was glad to see my wife was right that many women would be wearing or carrying gloves, since it was after 5. Elaine's left knuckles say 'Rita' on them. It used to be "Rico," but she did some brand altering back when.

We were successful in convincing Frank not to try out with his Ukulele. Instead he is the technical backup for Christie. That was not hard for my son to understand, but finding out the WARmon played Flute, and pretty well too, was a shock. When you are 15 all sorts of things surprise you. Ditto when you're 53.

The first act, just 16 minutes late, was a pianist. Then a singer did stand up while our bunch set up behind the curtain. I did not think to check on them as they had it down to 4 minutes from he cases. And sure enough, everyone was ready when the curtain parted -- but there were still gasps as the program just said "a duet." Frank stood off to one side and the WARmon had a music stand, but Christie was out there in the middle by the thing. She looked like a Valkyrie, and would have looked even more so had we not made her replace the Prussian Eagle with a Treble Clef. When the effect was taken, she nodded at the WARmon and they did Pacabell's Cannon In D like most of the folks had never heard it played.

It is called a Theremin, and this one was made years ago by Christie's dad, Gen. Jerry Bishop, from a Popular Electronics article for his first wife in 1954. It went with him at the divorce and ended up with a metal Donald Duck when he refitted and

put in new 6L6s on Christie's fifth birthday, in 1975. She stayed with it, and it showed.

It is an audio amp and generator with inputs controlled by capacitive coupling from the musician's hands as they move about the two poles of a metal object on a stand. She could control loudness, tone, and a lot of musician sounding stuff only my orchestra alumnae wife can remember. But the effect was impressive and the audience loved it. Christie had to motion for them to quit clapping, finally, so they could play "Fools Fall in Love." That got the crowd too, and the M.C. finally had to come out and OK an encore which, happily, the pair had prepared. They finished with "When the Saints Go Marching In," took a formal bow, and the managers closed the curtain so the show could go on.

Of course they won the little cup. They had to set up again and do the overture to "Die Valkyrie," which they have been practicing because the WARmon wants to try out for a standby spot on next year's DMA presentation. And after that they got mobbed and it took over an hour to get out and down to a place more trendy than Frank's usual stop at Denny's.

On the way home Frank rode with the rest of my family and Elaine while the WARmon and I, my kid the chauffeur stand in, and Christie and Press, followed in the Frazer.

I could smell marijuana, faintly, but you pick your fights.

So, reliable old Frank is an Odysseus for our day, but what if he disappeared? What would the WAR do? The Feds? Majordomo? Starting next week, FMLA episodes #49 and 50 will contemplate just such a problem.

de ab5L, michael in dallas, MNHopkins@JUNO.com
Student of Tecraft, ICM and Six Meters' Golden age: 1957-58 Box
226841, Dallas, TX 75222 Copyright FMLA XLVIII

Message-ID: <37ABCFC6.AD434DD6@xmission.com>
Date: Sat, 07 Aug 1999 00:18:47 -0600
From: Dexter Francis <cwest@xmission.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: POW Camp Radios
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"

Content-Transfer-Encoding: 7bit

I saw at least one of these in RAF Museum in Hendon. (North of London)
It was a real testimony to the innovation, courage and creativity of the builder.

Well worth the trip if you have an afternoon free thereabouts.
You don't even need a car to get there. It's walking distance from the
underground.

-df

Message-ID: <000f01bee0c8\$92492220\$2f1d29d8@blah>

From: "Richard Brunner" <rbrunner@gis.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: HF/DF Receiver

Date: Sat, 7 Aug 1999 07:31:50 -0400

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

"Can anyone help to identify this British HF/DF unit?

Point your browser to:

<http://webhome.idirect.com/~jproc/test/dfset.jpg>"

Yes! It is a WW2, "Huff-Duff," instantaneous direction finding receiver.
Similar models with flush front panel are shown in Arthur Bauer's book,
"Funkpeilung als alliierte Waffe gegen deutsche U-Boote 1935-1945." In
operation, two crossed loop antennas are connected, and signals give a
directional vector on the scope. The ones in Arthur's book are identified
as "FH-4."

Richard Brunner, AA1P, rbrunner@gis.net

From: K8MF0@aol.com

Message-ID: <87f7acbe.24dda2b8@aol.com>

Date: Sat, 7 Aug 1999 10:54:48 EDT

Subject: Drake MN-4 & Conar 400 FS

To: Old Tube Radios <boatanchors@theporch.com>

CC: baswaplist@foothill.net

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

I have the following for sale. Prices INCLUDE UPS shipping in CONUS

Drake MN-4 Antenna Matching Network. 300 watt model for 80 - 10 meters, which has built in SWR bridge and wattmeter. You can tune or run one antenna "straight through, and run either another antenna or a dummy load "straight through". Very clean and sharp. \$100

CONAR Model 400 CW transmitter for 80, 40, and 15 meters. Uses a 6DQ6B final tube. Silver colored front panel with red lettering, aqua green cabinet. This was offered by the National Radio Institute as a kit. Have a photocopied manual for the unit. Overall good condition, with crisp and clean lettering on the front panel. All knobs are original, as is the meter. \$65

Again, prices INCLUDE UPS shipping in CONUS.

Please reply directly.

Don K8MFO k8mfo@aol.com

From: K8MFO@aol.com
Message-ID: <8de2b3c0.24dda65c@aol.com>
Date: Sat, 7 Aug 1999 11:10:20 EDT
Subject: Service Manuals for Sale
To: Old Tube Radios <boatanchors@theporch.com>
CC: baswaplist@foothill.net
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I have the following boatanchor type service manuals for sale.

War Department Technical Manual TM-11-300 for Frequency Meter Sets SCR-211-A, B, C, D, E, F, J, K, L, M, N, O, P, Q, R, T, AA, AC, AF, AG, AH, AJ, AK, AL .

This includes "changes 1 and changes 2". 1944 from the War Department, Washington DC, George C. Marshall, Chief of Staff.. 162 pages, all the service info you need for the BC-211 type frequency meters. Even provides detailed destruction instructions should you become frustrated with your unit! \$15 INCLUDES SHIPPING CONUS.

Also still have a number of the John F. Rider "Perpetual Troubleshooting Manuals" available

VI, VII, VIII, IX, X, XI, XII, XIII, XIV, XV - also has separate index, XVI - also has separate index. These are large, heavy, and in original binders. \$30 each INCLUDING UPS SHIPPING in CONUS.

Don K8MFO k8mfo@aol.com

Date: Sat, 7 Aug 1999 11:34:10 -0400
From: polepeeeg@aaa4rm.ba-watch.org (Marty's Refl. Drop)
Message-Id: <199908071534.LAA08558@aaa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: milsurplus@qth.net
Subject: Re: What is it?

} It's a black wrinkle box, about 13w x12h x8d, uses 3 7193 tubes, about
} 7 or 8 6SH7s plus some 6H6s. Interesting thing is an 18(thats eighteen)
} volt dynamotor, that has one end driving a gear reduction mechanism
} which drives some(missing)cams that actuate some lever switches. It
} has 3 wafer type plugs on the front, 1 male and 2 female. Pretty
} sure it's Army as there is an orange rectangular inspection stamp.

Jack I think it's a "Mark IV" IFF that worked with later versions of
the SCR268 radar. Freq. was about 216mcs.

Cams & doolollies ran IFF codewheel. 18V is a complete puzzle unless
something 6V went in series... like all the 6V heater tubes.

Put it on the ground near a P47 & see if anything happens. Like
Francois Truffaut (Close Encounters) appears holographically with
Rod Serling (Twilight Zone)

It's worth a try.

Marty

From: wallace@world.std.com (Andy Wallace)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: 1955 Handbook gems (Collins)
Date: Sat, 07 Aug 1999 12:19:13 GMT
Message-Id: <37ad0bd5.45507792@world.std.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just got this for a friend of mine, and it'll be going out to him shortly.

See catalog section, pages 50-51 for some unusual Collins stuff.

Page 50 shows the 75A-4 receiver, which looks familiar to most of us. The CW-SSB

switch has the nomenclature on the same line, so I believe that is the later style.

However, below that is a shot of the 32W-1 Exciter! I have not heard of this one. Looks about like an A-4 (meter on left side) except right upper panel is bare. SSB/AM/CW.

On the right hand page is the "30L-1 Transmitter!" This looks like the KWS-1, sitting atop what I believe is the usual KWS-1 amplifier portion. They call the amp portion the 367A-1 Linear, using 4X150As. They say the 32W-1 exciter can be upgraded to a 30L-1 at the Factory.

I will try to scan these in and make them available (email me) before I send the book out to my friend, who will be amazed I got one for him! He's not a ham but learned a lot from the 55 Handbook, and misses the copy he lent "away" years ago.

My friend worked for Centralab many years ago. Anyone willing to sell me a Centralab catalog? Any vintage is fine!

--Andy
wallace@world.std.com

From: PLT1032@aol.com
Message-ID: <aeffb853f.24ddb22c@aol.com>
Date: Sat, 7 Aug 1999 12:00:44 EDT
Subject: BA's in Anchorage
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I'm in Alaska for the weekend. Any BA sites up here?

Boat Anchorage wanted!

Bob Lindgren

Date: Sat, 7 Aug 1999 13:55:13 -0400 (EDT)
Message-Id: <1.5.4.16.19990807135056.1e6f43a2@pop1.sympatico.ca>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Andre Guibert <aguibert@sympatico.ca>
Subject: HF-DF Receiver

Bonjour to All

Wish that my DFR-23 is as compact as the one in the picture, mine require 6 acres, 12 masts, an extensive underground cable network, wooden fences(No nails), a 6 foot table to support 3 RF chassis(10in.W x18in.H x24in.D ea.), one IF chassis, one 10in. cathodic indicator, power supply under the table.

Andre

Acres of Boatanchors

Andre Guibert

aguibert@sympatico.ca

Message-ID: <37AC91E9.955C77CB@ibm.net>
Date: Sat, 07 Aug 1999 16:07:05 -0400
From: Ray Vasek <w2ec@ibm.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: Knob for SX-28
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need one knob to complete an SX-28. It is the 0 center (5-4-3-2-1-0-1-2-3-4-5) style knob as used for the ant trimmer/crystal phasing/bfo control. Anyone have a spare from a parts radio?

73, Ray W2EC

Message-ID: <37ACB729.9EB00BC7@ix.netcom.com>
Date: Sat, 07 Aug 1999 17:46:01 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Follow-Up on TBW-5 Transmitter
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A few people asked me about getting the TBW-5 running without hacking it. I had taken a quick look at the diagrams I have and saw that external power piped to the inputs of the rectifier filters, plus the low filament voltages should do the trick, but I wasn't using a TBW manual. I have the G0-9 manual. I am told the G0-9 power supply is the same as the TBW supply. Before I write up something about it,

can someone please confirm or deny this, and perhaps
note any important differences?

TNX ES 73 DE Dave AB5S

Message-Id: <3.0.32.19990807185025.007db100@mail.wt.net>
Date: Sat, 07 Aug 1999 18:50:53 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@WT.NET>
Subject: Austin Summerfest Report
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings all...

Just got back from the Austin Texas Summerfest, and remember seeing the
following BA's:

National RCP - \$75, with nice repainted front panel, nice inside, I was
tempted!
Two Wells-Gardner RA0-1's, repainted cabinets (one blue, one gray, didn't
ask price)
Halli SX-28 - restorable, would clean up nice I think, \$200
National HRO-50, absolutely gorgeous with A, B, C, D coils, \$325

Saw also a good selection of Halli gear, but since I'm not a Halli man I
didn't ask prices. Didn't see much military gear, and the only RME gear I
noted was a converter on top of the RME-45/speaker/VHF-152A converter
package I sold for \$200. Didn't see any Hammarlund gear, saw a handful of
Drake 2B's, some Swan, and some WRL.

Saw a *TON* of folks from the BA list - Lynn Fisk, Gary Youney (sic?
sorry!), think I saw Dave Stinson, and lots of others I'm too tired to
remember...

Overall, I was disappointed with the 'fest logistics - tables too small,
isles too narrow, barely any tailgate space outside, 8am start/setup time,
etc... Seemed like there was a ton of sellers, but very few buyers with
cash to spend - lots of tire kickers. Saw less "junk" than I like to see
(I love rooting thru boxes of crud for stuff), and the computer stuff,
while present, wasn't overwhelming. Anyways, sold what I needed to so I'm
happy! (so is the fiancée) Got some left-overs I'll post here soon, and
came up with a few ideas to kick around with y'all...

Thanks and 73 y'all,
Ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
Located in Houston, Texas, USA.
e-mail: kd5byb@WT.net, web: ***down for refurbishment***
"An ye harm none, do what ye will."

Message-Id: <3.0.32.19990807191339.00808e20@mail.wt.net>
Date: Sat, 07 Aug 1999 19:13:41 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@WT.NET>
Subject: Silly panadaptor idea
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Greetings all...

Before I open my mouth (keyboard?) any further, let me first say that there are so many reasons what I'm going to ask about doing is silly (ie: I've got a panadaptor for my 455 kc IF sets, I have no schematic for the SA-3 unit, I've got no time to do this, my fiancée is about to kill me if I don't get off the computer soon, etc etc etc), but the tinkerer (moron?) in me is dying to know y'all's thoughts:

Anyway, I've got a Singer-Metrics SA-3 Panadaptor. It has an IF input of 30 Mc, and a window (bandwidth?) of +/- 1 Mc, I think.

What I want to do is to feed the IF from one of my 455 kc IF sets, thru a box to convert it to 30 Mc IF, then into the SA-3. I think that I can take the 455 kc IF, feed into a mixer where I mix it with the output of the local oscillator running at 29.545 Mc, and then into the 30 Mc input of the SA-3.

Problems I envision:

1) On HF, the +/- 1Mc window of the SA-3 is going to be too wide - I won't be able to discern one signal peak from the other. Bummer. Perhaps the unit can be mod'ed to not have such a big window. Somewhere in the panadaptor, it has to set its horizontal scan frequency, perhaps I can "tighten up" the window.

2) Since the panadaptor is looking at the upper mixing product of the mixer/L0 combo and has such a big window, it will show *two* images of what is out there (the L0 freq + 455 kc, and the L0 freq - 455 kc), in the same +/- 1 Mc window. I previously thought I could filter out the negative mixing product, but that won't work as the positive mixing product I want to see has spectral (right word?) components in the negative mixing product range - nuts. So, once again, I need to "tighten" the window. Hmmnn...

3) L0 stability - I need a *darn* stable L0 to provide the 29.545 Mc I'm feeding to the mixer - if the L0 drifts just a little bit, this is a large error compared to the 455 kc IF of the set I'm wanting to look at. I'm almost wondering if the stability I need is beyond BA-technology, into the need for PLL? (eeek! evil words!)

Anyways, would love to see y'all's comments...

Thanks,
Ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
Located in Houston, Texas, USA.
e-mail: kd5byb@WT.net, web: ***down for refurbishment***
"An ye harm none, do what ye will."

From: zeitler@ibm.net
Message-ID: <002f01bee138\$8b47a8a0\$a7dd6520@km3g>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: question about dc filter choke in power supply
Date: Sat, 7 Aug 1999 17:54:10 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The next project is a dc power supply that will go as high as 4500 vdc at 1 amp CCS. I will be using a new Dahl xmfr and a dc resonant filter choke followed by a cap. This is going to be the universal power supply for numerous amp projects.

Scenario: Output E of one of the taps is 2400 vac. Using a full wave bridge followed by a resonant choke I get 2150 vdc at the output; approx. 90%. This is where it should be using only a choke.

Now follow the choke by a cap. In this case 15uF at 5 kv (just happened to be in the junk box). Now the output voltage is 2480 vdc.

The "output factor" went from .9 to 1.05.

Why the increase in output voltage when the cap is in place?

90% of xmfr secondary voltage with just choke and 105% with the choke followed by the cap.

I am sure the answer is very basic but for some reason I lost the concept.

Help!

Lane Zeitler
Ku7i
San Diego

From: zeitler@ibm.net
Message-ID: <003101bee13a\$3b52fdc0\$a7dd6520@km3g>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Jackson model 637 tube tester
Date: Sat, 7 Aug 1999 18:06:17 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gents,
I need some poop on the model 637 tube tester by Jackson. I am looking for a "keeper" tube tester for the bench. I picked this one up and was wondering if it is basically on par with the TV-7D? I am very familiar with the TV-7D but not with this unit made by Jackson.

I sold the last tube tester I had like an idiot and would like to keep this one unless it is considered low grade and not very reliable.

How does it compare to the high end Hickok models?

Sorry for the silly questions but this is a new toy.

Lane
Ku7i
San Diego

BTW the owner must of asked for a replacement manual in the past because the manual was inside an envelope that had been mailed. Kind of neat to see a 6 cent stamp on a small package that now would cost around \$3.00 to send!! The automated postage stamp thing says: Dayton, Ohio Aug 18 '60. US Postage .06.

Kind of neat.

73s

Message-Id: <3.0.5.32.19990807214309.00873790@mail2.coastalnet.com>
Date: Sat, 07 Aug 1999 21:43:09 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Al Parker <anchor@coastalnet.com>

Subject: Re: question about dc filter choke in power supply
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Scenario: Output E of one of the taps is 2400 vac. Using a full wave bridge
>followed by a resonant choke I get 2150 vdc at the output; approx. 90%. This
>is where it should be using only a choke.

>

>Now follow the choke by a cap. In this case 15uF at 5 kv (just happened to
>be in the junk box). Now the output voltage is 2480 vdc.

>

>Why the increase in output voltage when the cap is in place?

>

Hi Lane,

The xfmr 2400 VAC is RMS, 70.7% of the peak.

At no load, the DC could approach $2400 / .707 = 3390\text{vdc}$, but the choke smooths
the fullwave rectifier output, so you get less, still above the AC rms
value. Will stay above unless heavily loaded, and no losses in components.

It'll go below the RMS value heavily loaded in real life.

hope that explains it correctly & satisfactorily.

that's a whopper of a supply.

73,

Al, W8UT

New Bern, NC

Boat Anchors appreciated here
anchor@coastalnet.com

Date: Sat, 7 Aug 1999 21:08:32 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 3-500z(g)
Message-ID: <Pine.OSF.3.96.990807210808.23032H-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 5 Aug 1999, Roy wrote:

> OK, I'm suffering from the old grid to fil. short on my single 500z in a
> Drake L75. What's the best place to buy a new one and still have some
> change left. Thanks for your help on this and the GRC-109 question.

I have one of those too - you want a matched pair :-)

"Nostalgia is a thing of the past"

E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net 73 de Bob, K9EUI

CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-4222

From: zeitler@ibm.net
Message-ID: <002b01bee145\$06e1b1c0\$f3dd6520@km3g>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Clarification on dc choke post
Date: Sat, 7 Aug 1999 19:23:36 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Many of you have asked if there is a load or a bleeder resistor and yes there is a bleeder---(2) 100K ohm 200 watt units in parallel.

Lane
Ku7i

From: thompson@mindspring.com
Message-ID: <000d01bee149\$216238e0\$3f2856d1@default>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: 1955 Handbook gems (Collins)
Date: Sat, 7 Aug 1999 22:53:00 -0400

Mac W2NSA had the exact pair (in 1959). The 32W-1 was meant to look like the 75A4 but Art Collins did not know that transceiver would be the rage on SSB....Mac also had the KWS-1 which combined the two into one complete system. Mac also had the P&H VFOMatic for the 75A4 which let the receiver control the transmitter. There was one additional version the KWS-1K (a kit form) Art (according to Mac and Bill Harrison W2AVA) saw the unit work with the VFOMatic and told his engineers to start developing a complete transceiver with the KWM-1 being the first result.

Dave K4JRB

> Just got this for a friend of mine, and it'll be going out to him shortly.

>

> See catalog section, pages 50-51 for some unusual Collins stuff.

>

> Page 50 shows the 75A-4 receiver, which looks familiar to most of us. The CW-SSB

> switch has the nomenclature on the same line, so I believe that is the later

> style.

>

> However, below that is a shot of the 32W-1 Exciter! I have not heard of

this
> one. Looks about like an A-4 (meter on left side) except right upper panel
is
> bare. SSB/AM/CW.
>
> On the right hand page is the "30L-1 Transmitter!" This looks like the
KWS-1,
> sitting atop what I believe is the usual KWS-1 amplifier portion. They
call the
> amp portion the 367A-1 Linear, using 4X150As. They say the 32W-1 exciter
can be
> upgraded to a 30L-1 at the Factory.
>
> I will try to scan these in and make them available (email me) before I
send the
> book out to my friend, who will be amazed I got one for him! He's not a
ham but
> learned a lot from the 55 Handbook, and misses the copy he lent "away"
years
> ago.
>
> My friend worked for Centralab many years ago. Anyone willing to sell me a
> Centralab catalog? Any vintage is fine!
>
>
> --Andy
> wallace@world.std.com
>

End of BOATANCHORS Digest 2630
